

## **INSTALLATION GUIDE**

**AOI0024 (Old part number AOI0020)**

**2001 - 2014 IMPALA**

**2011+ CHEVY CAPRICE**

**2007 - 2013 FORD F150**

**2007 - 2013+ FORD EXPLORER**

**2013+ FORD UTILITY/ SEDAN INTERCEPTOR**

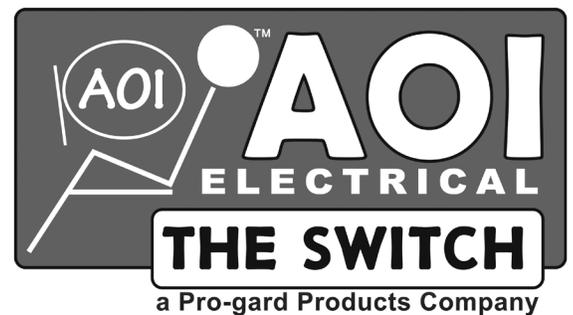
**2007 - 2013+ DODGE CHARGER**

**2007 - 2013+DURANGO 2008-2013+ RAM**

**2010+ CHEVY EXPRESS VAN**

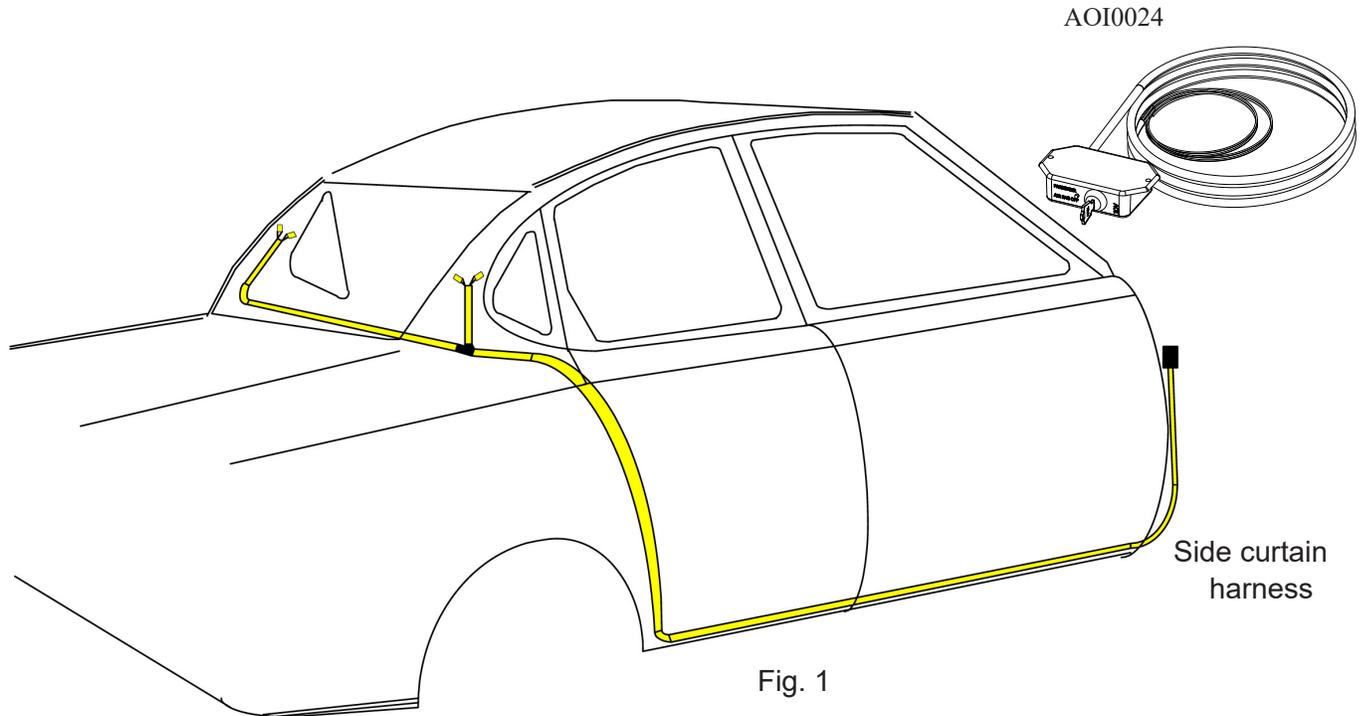
**2015+ CHEVY TAHOE**

**2014+ CHEVY SILVERADO**



# Side Curtain Air Bags Cut-Off Switch Installation

THESE COMPONENTS ARE REQUIRED  
TO INSTALL THE AOI AIR BAG CONTROL SYSTEM



## I. The following tools may be required to complete the installation.

- A. Wire Strippers (24 AWG - 18AWG)
- B. Soldering Iron & Solder
- C. Heat shrink tubing
- D. Standard and Phillips Screwdriver
- E. Socket Wrench with 7mm and 10mm sockets
- F. Crimper

## II. Read all instructions carefully before starting the assembly process.

**NOTE:** *Never probe the electrical connectors on air bag, safety canopy or side air curtain modules. Failure to follow this instruction may result in the accidental deployment of these modules, which increases the risk of serious personal injury or death.*

**WARNING:** *When performing service on or near the Supplemental Inflatable Restraint (SIR) components or the SIR wiring, the SIR system must be disabled. Failure to observe the correct procedure could cause deployment of the SIR components. Serious injury can occur. Failure to observe the correct procedure could also result in unnecessary SRS system repairs. Consult OEM Dealer or Repair Manuals for correct procedures.*

### III. Pre-Installation Procedure.

- A. Verify that the SRS (Supplemental Restraint System) is functioning properly. Start the vehicle, immediately after cranking the engine, locate the Air Bag Check light on the Dash Board. The light should flash for approximately 6 – 8 seconds, then extinguish. Wait for another 6 – 8 seconds. The light should NOT come back on. More recent vehicles may briefly show the airbag check light once before turning it off. This is also normal, so long as the light does not come back on.

**WARNING:** *In the event the light comes back on, or you have no check light at all, DO NOT ATTEMPT TO INSTALL THE AIR BAG SWITCH. The vehicle needs to be taken to your local service department to have the air bag system repaired.*

- B. If the air bag system completes its self-testing procedure and extinguishes, as described above, the system is working properly. You may now proceed with the installation process

### IV. Air Bag Switch Installation.

- A. Disconnect the vehicle battery power and allow sufficient drain time (20 Min.) for the SRS System.
- B. Remove necessary trim panels, and/or support members to gain access to the side curtain Air Bags.
- C. Identify and locate the two roof rail air bag In-Line connectors in the upper Pillar areas. The harness is typically designed to extend to the back of the vehicle by running underneath the Thresh-Hold Plates of the vehicle.
- D. Refer to the wiring diagram of Figure 2 for detailed instructions on how the wires are connected. Identify the feed/signal and return/groundwires first. You may need to use a vehicle database for this, or contact tech support at 1-800-480-6680 for assistance.
- E. Run the two AOI switch harnesses through the vehicle to the Pillars as shown in Figure 1 and attach the AOI harness wires into the two side curtain air bag lines as shown in Figure 2. Make sure the red wires head toward the air bags and the white wires head toward the control module.
- F. The air bag switch harness is equipped with two longer leads; the red power lead and black ground lead. These are used to provide the electrical power for the switch. Locate a convenient power source, preferably from an ignition-controlled circuit with a 10 amp fuse ( or one can be added) to provide power. Contained in the kit is a ring terminal. This can be utilized to make your ground connection to a convenient screw or bolt that makes contact with the chassis.

**WARNING:** *At NO TIME, while the air bag circuit is unplugged, should the ignition be turned ON.*

## V. Testing the AOI Switch

- A. With the vehicle off, move the airbag keyswitch to the “on” position, where the key is parallel to the length of the airbag box. Turn the vehicle on. The air bag check light on the dashboard should flash for approximately 6-8 seconds, then go out. There is an LED light on the switch, which should remain on while the vehicle is running. **From this point on DO NOT actuate the keyswitch with the vehicle on.** Some vehicles may be equipped with an air bag status indicator located in the center dash or headliner. If the indicator shows that the air bag is on while the AOI switch is active, this is perfectly normal.

**NOTE:** *If the check light comes back on, whether flashing or a solid light, do some preliminary checks. Make sure all wires are connected. Double check the rest of the air bag system to be sure no other connections have come loose and are completely secured.*

**If these preliminary checks don't correct the problem, call AOI Electrical, at the toll free number (888) 903-0004, and ask for technical assistance.**

## VI. Mounting the AOI Switch Box

**NOTE:** *It is recommended that you mount a side curtain air bag on/ off switch in a manner so that the telltale light on the switch box is clearly visible to the driver's seat position and clearly visible to all occupants of all seating positions for which the air bag has been deactivated.*

**CAUTION:** *If the air bag on/off control switch is mounted in a location that is not highly visible, (locations such as the glove box, underneath the dash, lower kick panel, etc...) a remote status light can be mounted to meet the above recommendations in place of the switch box.*

- A. In order to mount the switch on the vehicle, locate a flat surface with a smooth finish, which is accessible. (The adhesive will not mount to any type of cloth or velour surface)
- B. Find the Automotive Adhesion Promoter, which is enclosed in the kit. Using the Promoter, wipe down the area where the switch will be mounted. Allow the area to dry, remove the adhesive backing from the switch, and stick the switch to the area.

## VII. Warning Label Placement

- A. Locate the “Large Yellow Warning Label” enclosed in the kit. Find an area to place the label on the vehicle that will be seen by the occupant.

## VIII. Owner's Manual

- A. Fill out the necessary dealer/automotive repair shop information on the Owner's Manual insert as indicated.
- B. Give the vehicle owner or lessee the Owner's Manual insert with instructions to place it with the vehicle's owner manual documentation.

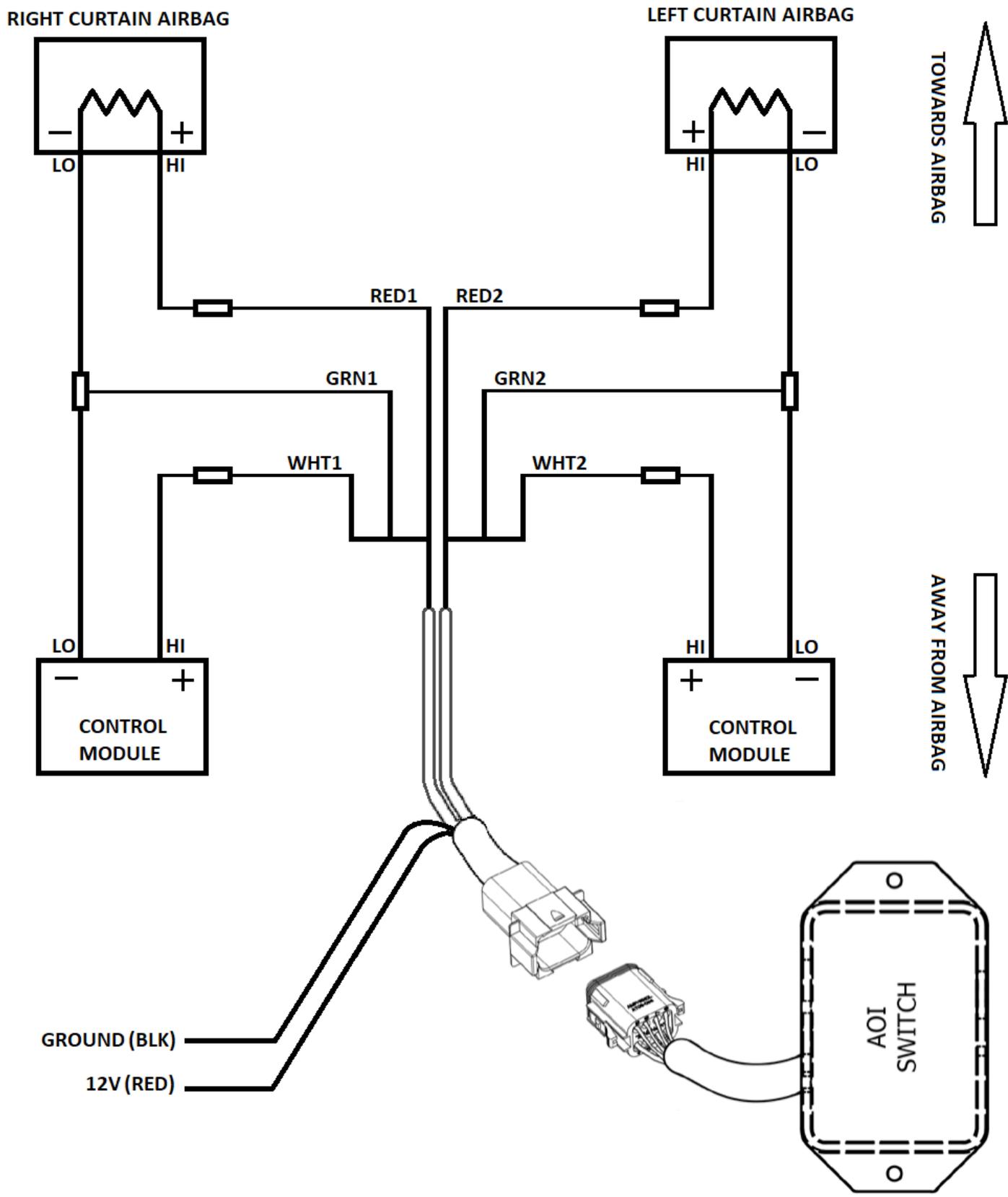


Fig. 2